

Huawei OptiXstar EN8012Ts-20 Datasheet 01

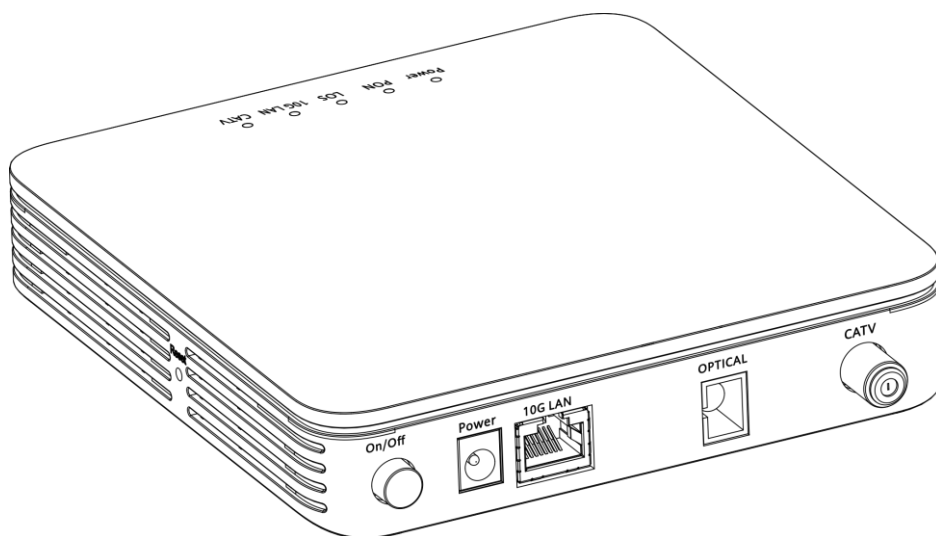
Huawei EN8012Ts-20, an XGS-PON bridging-type ONT

Overview

The Huawei OptiXstar EN8012Ts-20 is an XGS-PON bridging-type ONT in the Huawei all-optical access solution. It uses the XGS-PON technology to implement ultra-broadband access for users.

The high-performance forwarding capability ensures the service experience of data and HD video services, and provides users with ideal terminal solutions and future-oriented service support capabilities.

It provides one 10GE port and one CATV port.



Device Parameters

Dimensions (H x W x D) (without pads)	32 mm x 135 mm x 140 mm	System power supply	12 V DC, 1 A
Weight	About 236 g	Static power consumption	2.8 W
Operating temperature	0°C to 40°C	Maximum power consumption	5.5 W
Operating humidity	5% RH to 95% RH (non-condensing)	NNI	XGS-PON

Power adapter input	100-240 V AC, 50/60 Hz	UNI	1x10GE+1xCATV
Indicators	Power/PON/LOS/10G LAN/CATV	Optical connector	SC/APC
Memory	128MB Flash, 32MB RAM		

Interface Parameters

XGS-PON port	Ethernet port
<ul style="list-style-type: none"> Class N1/N2/E1 Receiver sensitivity: -27 dBm ~ -29 dBm Wavelengths: 1260-1280 nm upstream, 1575-1580 nm downstream Wavelength blocking filter (WBF) Flexible mapping between GEM Port and TCONT SN/Password/SN+Password/Bi-directional authentication based on OMCI Upstream and downstream FEC SR-DBA and NSR-DBA Upstream and downstream rate: 9.953 Gbit/s upstream, 9.953 Gbit/s downstream 	<ul style="list-style-type: none"> Ethernet port-based VLAN tags and tag removal 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission QinQ VLAN Limit on the number of learned MAC addresses MAC address learning Auto-adaptive 10000Mbit/s, 5000Mbit/s, 2500Mbit/s, 1000Mbit/s, 100Mbit/s
	CATV port
	<ul style="list-style-type: none"> Frequency Range 54 MHz to 1000 MHz Output resistance 75 ohms Received average optical power: -8 dBm to +2 dBm RF output power: $\geq 17\text{dBmV/Ch}$ (With RF source analog channel power input = 20dBmV/ch, and 40 analog / 63 digital channels (4.3% OMI analog, 2.15 % digital))


Product Function

Smart O&M	Multicast	QoS	Common O&M
<ul style="list-style-type: none"> Variable-length OMCI messages Rogue ONT detection and isolation from the OLT PPPoE/DHCP simulation testing 	<ul style="list-style-type: none"> IGMP v2/v3 snooping MLD v1/v2 snooping Fast leave VLAN tag translation, transparent transmission, and removal for downstream multicast packets IGMP/MLD protocol packet rate limitation 	<ul style="list-style-type: none"> Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation Flow mapping based on the VLAN ID, port ID, or/and 802.1p 	<ul style="list-style-type: none"> OMCI/Web UI Dual-system software backup and rollback 802.1ag Ethernet OAM Optical link measurement and diagnosis
Security	Power Saving	-	-
<ul style="list-style-type: none"> MAC address filtering 	<ul style="list-style-type: none"> Indicator power saving CoC V8 		

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